

ABSTRACT

5 A method of production of a metallic product with a
nanocrystallized surface layer comprising subjecting a
surface layer of a metallic product to ultrasonic impact
treatment by one or more ultrasonic indenters vibrating
in a plurality of directions, then subjecting the surface
layer subjected to the ultrasonic impact treatment to
heat treatment at a low temperature to cause
10 precipitation of nanocrystals.